		WS CH RT A - (			1A. DATE SUBMITTED October 3, 2003						
•	days from date subr	•						•	cossible. If there is no specific requi		
2. ORIGINATOR OFFICE Office of Science and Technology, Systems Engineering Center (OST32)	RITY	4. COGNIZANT TECHNICAL INDIVIDUAL  Name: Dave Niver Routing Code: W/OST32 Phone: 301-713-9001 x168  Name: James Heil Routing Code: OS11 Phone: 301-713-0463 x172					5. ORIGINATOR TRACKING NUMBER				
6. SYSTEMS AFFECTE  DATA PRODU			OTHER	(specify)	_				7. WSH TRACKING NUMBER	7A. REV LEVEL	
ASOS	X AWIPS	□ N	NEXRAD	D		RRS		CRS			
8. TITLE OF CHANGE Add New Eta 1		SBN/N	OAA	APORT	(Rev	/ised 1/14/2	<u>-</u> :004)	)	9. OPERATIONAL REQUIREMENTS DOCUMENT IDENTIFIER		
10. CATEGORY OF CH	HANGE				-		11. C	CLASS OF CH	HANGE		
X□ RC [	PECP	E	ECP					CLASSI	CLASSII		
12. TYPE OF CHANGI	E FATION ONLY	П н	HARDW	√ARE ————	X	SOFTWARE	X	DATA			
13. SITES AFFECTED	7 (11 51105										
14. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM  In May 2003, the IFPS Science Steering Team (ISST) recommended that additional Eta 12 model forecast times be provided to AWIPS. This will extend the existing Eta 12 from 60 to 84 hours, while keeping the same parameter set. These new forecast times will meet the requirement for an improved grid set for IFPS's "Smart Initialization." Therefore, OS&T and OS jointly submit this RC on behalf of the ISST.  The AWIPS Build to which these new grids will be allocated is OB2.2; the full set of Eta 12											
grids will be	allocated	within	n AWII	PS OB4.	•					ta 12	
			te d	ata vol	ume	estimate a	ind €	expanded	d parameter names.		
15. KNOWN OR PROP	OSED SOLUTIO'	N			_						

The additional E	ta 12 fore	ecast	times shoul	d be a	dded to the	SBN	and made available to AWIPS sites,			
with their exten	ded grids	follo	wing the sam	me dis	semination p	pathw	way as the existing Eta 12 grids:			
	NCEP → NW	IS TG	→ AWIPS NCF	→ SBN	I(TG chan) ➡	→ AWI	PS & NOAAPORT Users.			
Specifications f	or new Eta	a 12 g	rids:							
1. Grid 218 (12K	M Eta 12 (	CONUS)								
3. Forecast Inte AWIPS current at 06 and 18 granularity of 00, 03, 06, 045, 48, 51, 5 Units are houd 4. The four Eta 5. Data Volume: increases the	re Humidity  el reducti ure tation*  Water ecipitation ers have of rvals ly gets Et UTC (all in ut to 84 in 9, 12, 15, 4, 57, 60, rs from model 12 model in The increadaily dat provide to	on*  one le  ta 12  four c  nours  , 18,  , 63,  odel i  run ti  ase to  ta vol	grids out to cycles output gives 29 to 21, 24, 27, 66, 69, 72, nitialization mes are 00, 29 valid to ume by 176 l	0 60 h t at ti tal "v. 30, 3: 75, 7: on time 06, 1: imes ( MB (52	ours at 00 a hree hour in alid times, ' 3, 36, 39, 4 8, 81, and 8 e. 2 & 18 UTC. * parameters.6%), from 3	and 1 nterv " wit 42, 84 Hr s ABC 334 t	OVE increase to 28 valid times)			
CHANGE DATE October 30, 2003 as	his produ .llocated	to AW	equired changes recently VIPS OB1.2, pmmence dep	been which		19. P	RIORITY  ROUTINE X URGENT   EMERGENCY			
			DRO	G/CCB/PN	IC/CMB DECISIO	N				
20. DECISION AUTHOR	ITY LEVEL		FAST TRACK		CCB LEVEL OF	NLY	PMC or NWS CMB DECISION REQUIRED			
21. CCB LEVEL DECISION	ON	APPROVED DISAPP				D	SIGNATURE			
			RECOMMEND A	APPRO V <i>A</i>	<b>AL</b>		DATE SIGNED			
22. PMC OR NWS CMB	DECISION	FOF	R USE ONLY WHE	EN PMC	or NWS CMB DEC	CISION	I REQUIRED SIGNATURE/DATE			
	220.010		APPROVED		DISAPPROVE	D				

		1. ORIGINATOR TRACKING NUMBER							
This informatio	n is required for Da	ata Products submissions.						2.WSH TRACKING NUMBER	2A. REV LEVEL
3. NODE ID	4. AW IPS ID	5. WMO HEADER	6. ADD	7. SEAS Y/N	8. CHAR PER MSG	9. FREQUENCY	10. NWSTG DISTR	1	NW W S ON LY
	NNNXXX		REV DEL					11. PRIME UPLINK	12. B/U UPLINK
1. The T <sub>1</sub> value Y. Default va	Notes: The W MO header assignment notes, below, refer to the generic header template: T <sub>1</sub> T <sub>2</sub> A <sub>1</sub> A <sub>2</sub> ii.  I. The T <sub>1</sub> values correspond, respectively, to the following: Y. Default value Z. Value for forecast periods of 51, 54, 57, 63, 66, 69, 75, 78, and 81Hrs								
2. The T <sub>2</sub> value T 2 m Temp		pectively, to the following 11 parame	eters:						

R 2 m Relative Humidity

- U 10 m u-wind
- V 10 m v-wind
- P MSLP Z MSLP (Eta)
- P Station Pressure
- E Total Precipitation
- W CAPE
- Y CIN
- F Precipitable Water
- G Convective Precipitation
- Q Lifted Index
- Z Helicity
- 3. The  $A_1$  values are assigned to the following GFS model grid:

B = Grid 218 (12 KM Eta 12 CONUS)

- 4. The A<sub>2</sub> values are assigned to the following forecast periods (listed for times after 48 hours):
- . For T<sub>1</sub>=Y: J=60, K=72, L=84

For T<sub>1</sub>=Z: Q=51, M=54, S=57, N=66, T=78, and Z=63, 69, 75, and 81 Hrs.

- 5. The ii values are assigned as follows:
  - 98 default
  - 89 for MSLP and MSLP (Eta)
  - 86 for Helicity

	FOR METAR CHAN	GES ONLY		17. INTERNAL NW S USE ONLY	18. PRODUCT SOURCE	19. AWIPS DATA TYPE
13.	14. N. LATITUDE	15. W. LONGITUDE	16.			
COMMS			ELEV			
ID			(M)			

DEG	MIN	SEC	DEG	MIN	S E	20. NOTIFICATION	A. CHANGE NOTICE NUMBER	B. EFFECTIVE DATE	C. ISSUE DATE
						AWIPS			
						EMWIN			
						NWWS			

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Part A - Page 2 (Data Products Supplement)

NWS CHANGE FORM PART B - FUNDING AND SUPPOR	1. ORIGINATOR T	RACKING NUMBER								
All RC/ECP submissions must also address the following information. Atta referencing each applicable subject.	2. WSH TRACKIN NUMBER	G 2A. REV LEVEL								
FUNDING INFORMATION										
3A. DEVELOPMENT COSTS		3B.	3C. \$							
4A. OPERARQONAL TEST AND EVALUARQON COSTS	4B.	4C. \$								
5A. PRODUCRQON COSTS	5B.	5C. \$								
6A. COMMUNICARQONS SERVICE/CIRCUITS COSTS	6B.	6C. \$								
7A. IMPLEMENTARQON SUPPORT COSTS	7B.	7C. \$								
8A. LIFE CYCLE SUPPORT COSTS	8B.	8C.								
9A. CCB COST EVALUARQON NWS COST \$ FAA COST \$ DOD C	COST \$ OTHER AGENC (SPECIFY)	Y COST \$	9B. TOTAL COST \$							
SUPPORTING INFO	ORMATION AND SCHEDULES									
10. DEVELOPMENT STATUS/SCHEDULE	11. PROCUREMENT STATUS/ SCH	EDULE								
12. IMPLEMENTATION/RETROFIT STATUS/SCHEDULE	13. FACILITY INFORMATION									
14. COMMUNICATIONS RESOURCES TO BE INSTALLED	15. COMMUNICARQONS RESOUR	CES TO BE REMOVE	D							
16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES	17. COORDINARQON OF CHANGE	WITH OTHER CHANGES								
18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED	19. STAFF RESOURCE IMPACTS									
20. LOGISRQCS IMPACTS	21. OPERARQONAL IMPACTS									
22. ADDIRQONAL MAJOR CHANGE ACRQVIRQES										

This information is required prior to publication of Engineering Modification Notes and Software Release Notes.  2. WSH TRACKING	NG NUMBER 2A. REV LEVEL			
PART AND SOFTWARE IDENTIFICATION				
3. ITEM TYPE: 4. ITEM NAME AND 5. ADD 6. OLD PART OR SOFTWARE VERSION 7. NEW PART OF REMOVE	R SOFTWARE VERSION			
SOFTWARE DESIGNATOR REPLACE A. PART NUMBER OR B. SERIAL NUMBER OR LOT A. PART NUMBER OR LOT SOFTWARE VERSION SOFTWARE VERSION				
DOCUMENTATION IDENTIFICATION				
8. DOCUMENT   9. DOCUMENT TITLE   10. ADD   11. OLD DOCUMENT   12. NEW DOCUMENT   12. NEW DOCUMENT   12. NEW DOCUMENT   13. NEW DOCUMENT   14. NEW DOCUMENT   15. NEW	12. NEW DOCUMENT			
MODIFY A. IDENTIFIER B. REVISION IDENTIFIER IDENTIFIER	B. REVISION IDENTIFIER			

	NWS PART C - CHANGE A	1. ORIGINATOR TRACKING NUMBER					
	tters should propose implementation action a	ns; W SH will assist with and suppleme	ent actions or required sta	atements	2.WSH TRACKING NUMBER		2A REV LEVEL
3. IMP	LEMENTATION DOCUMENTS REQUIF	RED					
	Engineering Modification Note	Software Release Notes		cument (Sp	ecify)		
		ADDITIONAL IMPLEMENTAT	ION INSTRUCTIONS				
4. IMP	LEMENTATION ACTIVITY REQUIRED		5. REQUIRED COMPLETION DATE	6. RESP PERSO OFFICE			IENT OR EQUIRED TO OMPLETION